

SC Region - Marine Engineering

Project Cost Estimate

PROJECT NUMBER: SSHWY00232

PROJECT TITLE: Cascade Point Ferry Terminal

DESCRIPTION: Cascade Point - Single Berth

Date: 3/22/2019

Item No.	Item	Units	Unit Price	Quantity	Amount
1	General Mobilization/Demobilization Temporary Erosion and Pollution Control Construction Surveying Field Offices	LS CS LS LS	\$800,000 \$250,000 \$100,000 \$75,000	1 1 1 1	\$800,000 \$250,000 \$100,000 \$75,000
2	Dredged Mooring Basin Dredged Mooring Basin (Includes placement as upland fill or disposal)	CY	\$35	52,000	\$1,820,000
3	Marine Facilities Pile Supported Bridge Approach Abutment Sheet Pile-Wave Barrier Structure 20'x142' Steel Transfer Bridge 50'x80' Steel Bridge Float (or Lift Bridge System) (w/ Intermediate Ramp, Apron & Fenders) 4-Pile Stern Dolphin Structures 4-Pile Breasting Dolphins 3-Pile Mooring Dolphins Steel Access Catwalks Electrical Power and Lighting System (Terminal)	EA LF EA EA EA EA EA EA LS	\$80,000 \$40,000 \$900,000 \$1,600,000 \$650,000 \$650,000 \$500,000 \$65,000 \$400,000	1 500 1 1 2 3 2 5 1	\$80,000 \$900,000 \$1,600,000 \$1,300,000 \$1,950,000 \$1,000,000 \$325,000 \$400,000
3	Upland Improvements (Access/Staging Area) Access Road Improvements (Widen/Reconstruct/Chip Seal) Cascade Creek Bridge - 50' Length Staging/Parking Areas Excavation Causeway Embankment (Local Excavation + Import) Riprap Slope Protection 12" Aggregate Surface Course (Approx 3.62 acres uplands) Asphalt Concrete Surfacing or Stabilized Base/Chip Seal (Approx 3.62 acres uplands + Access Road) Metal Beam Guardrail Painted Traffic Markings Potable Water Supply (Well & Piping) Sanitary Sewer for Bldg (Pkg Treatment Plant/Outfall/Leach Field or Holding Tank)	LF EA CY CY CY CY Ton LF LS	\$500 \$800,000 \$20 \$15 \$70 \$25 \$200 \$55 \$45,000	1,600 1 36,200 77,000 15,000 5,840 2,437 1,120 1	\$800,000 \$800,000 \$724,000 \$1,155,000 \$1,050,000 \$146,007 \$487,403 \$61,600 \$45,000
5	Building Structures Utility / Restroom Building (16'x32') Pit Toilet Public Restroom Facility	LS SF LS	\$200,000 \$500 \$80,000	4 512.00 1	\$2,567,852

Marine Structures = \$7,555,000

Upland / Access = \$5,269,010

Utilities = \$1,250,000

Item Totals \$17,119,010
Estimating & Construction Contingencies @ 15% \$2,567,852

Construction Subtotal \$19,686,862

10% Design & Permitting \$1,968,686
20% Construction Engineering \$3,937,372

5.7% ICAP \$1,458,796.45

Project Total = \$27,051,717

Prepared by: KDM
Checked by: KDM

Date: 03/22/19
Date:

SC Region - Marine Engineering

Project Cost Estimate

PROJECT NUMBER: SSHWY00232

PROJECT TITLE: Cascade Point Ferry Terminal Highway Improvements

DESCRIPTION: Resurface / Reconstruct Existing Highway Besse Creek to Cascade Point

Date: 3/22/2019

Option	Item	Length (miles)	Width (ft)	Surface Area	Units	Unit Price	Amount
A1	Chip Seal Besse Creek to Echo (no stabilized subbase / no widening) 26' Wide Chip Seal no Stabilized Base	5.87	26.00	806,000	SF	\$0.80	644,800

Item Totals \$644,800
 Estimating & Construction Contingencies @ 10% \$64,480
Construction Subtotal \$709,280
 10% Design & Permitting \$70,928
 10% Construction Engineering \$64,480
 5.7% ICAP \$48,147
Project Total = \$892,835

Option	Item	Length (miles)	Width (ft)	Surface Area	Units	Unit Price	Amount
A2	Chip Seal Echo to Cascade (no stabilized subbase / no widening) 26' Wide Chip Seal no Stabilized Base	2.84	26.00	390,000	SF	\$0.80	312,000

Item Totals \$312,000
 Estimating & Construction Contingencies @ 10% \$31,200
Construction Subtotal \$343,200
 10% Design & Permitting \$34,320
 10% Construction Engineering \$31,200
 5.7% ICAP \$23,297
Project Total = \$432,017

Option	Item	Length (miles)	Width (ft)	Surface Area	Units	Unit Price	Amount
B1	Stabilized Base + Chip Seal Besse Creek to Echo (no widening) 26' Wide Stabilized Base w/ Chip Seal Surfacing	5.87	26.00	806,000	SF	\$4.25	3,425,500

Item Totals \$3,425,500
 Estimating & Construction Contingencies @ 10% \$342,550
Construction Subtotal \$3,768,050
 10% Design & Permitting \$376,805
 15% Construction Engineering \$565,208
 5.7% ICAP \$268,473.56
Project Total = \$4,978,536

Option	Item	Length (miles)	Width (ft)	Surface Area	Units	Unit Price	Amount
B2	Stabilized Base + Chip Seal Echo to Cascade (no widening) 26' Wide Stabilized Base w/ Chip Seal Surfacing	2.84	26.00	390,000	SF	\$4.25	1,657,500

Item Totals \$1,657,500
 Estimating & Construction Contingencies @ 10% \$165,750
Construction Subtotal \$1,823,250
 10% Design & Permitting \$182,325
 15% Construction Engineering \$273,488
 5.7% ICAP \$129,906.56
Project Total = \$2,408,969

Option	Item	Length (miles)	Width (ft)	Surface Area	Units	Unit Price	Amount
C	Reconstruct Besse Creek to Echo Cove - 30' width 30' width w/ stabilized subbase/chip seal or AC pavement	5.87	30.00	930,000	SF	\$7.00	6,510,000

Item Totals \$6,510,000
 Estimating & Construction Contingencies @ 15% \$976,500
Construction Subtotal \$7,486,500
 15% Design & Permitting \$1,122,975
 20% Construction Engineering \$1,497,300
 5.7% ICAP \$576,086.18
Project Total = \$10,682,861

Option	Item	Length (miles)	Width (ft)	Surface Area	Units	Unit Price	Quantity
D	Reconstruct Echo Cove to Cascade Point - 30' width 30' width w/ stabilized subbase/chip seal or AC pavement	2.84	30.00	450,000	SF	\$7.00	3,150,000

Item Totals \$3,150,000
 Estimating & Construction Contingencies @ 15% \$472,500
Construction Subtotal \$3,622,500
 20% Design & Permitting \$724,500
 20% Construction Engineering \$724,500
 5.7% ICAP \$289,075.50
Project Total = \$5,360,576